

WHARFSAFE™ FENDER SLINGS

AN ENGINEERED LIGHTWEIGHT
SOLUTION TO REPLACE
FENDER CHAINS

Fender chains can be one of the biggest maintenance challenges for ports. Wharfsafe™ Fender Slings from Cortland International are an engineered, high-strength synthetic fiber solution designed to replace traditional fender chains, delivering the strength of steel in a lighter, safer, and virtually maintenance-free system.

Wharfsafe™ offers:

- Strength comparable to steel at 75% less weight
- A “set-and-forget” design that is virtually maintenance free
- Easier handling and maneuverability during installation and maintenance compared to chain
- Significant reductions in rigging time and manpower requirements

A Direct Replacement for Fender Chains

Wharfsafe™ is a straightforward replacement for steel fender chains. It is designed to retrofit into virtually any fixed wharf fender system with no modifications required to the remainder of the existing fender assembly.

This high-performance system features a high-strength synthetic fiber core protected by a customized multi-layer jacket system, finished with a PVC wear pad to help resist:

- Abrasion
- Environmental exposure and weathering
- Mooring line interference

The integrated spool system is manufactured from high-grade stainless steel for excellent corrosion resistance in marine environments.

Proven Benefits Over Fender Chains

Field trial systems have shown that the benefits of the Wharfsafe™ system can significantly outweigh those of traditional fender chains:

- Improved port employee safety and productivity
- Service life up to 3x longer than chain
- No moving parts
- Virtually maintenance free
- Reduced port downtime, supporting higher operational productivity
- Lower fender maintenance costs
- Eliminates fender “sag” that can contribute to cone fender damage
- Helps prevent fender face disorientation and premature component wear



Why Choose Wharfsafe™

- Lightweight alternative to heavy chain
- Direct replacement for fender chains
- Safer handling—low risk of injury during mobilization or demobilization
- No moving parts such as chain links to cause excessive wear
- Low creep, maintenance free design, eliminating the need for ongoing adjustment associated with chain systems
- No port disruptions or wharf shutdowns for lifecycle of Wharfsafe™ system



WHARFSAFE™ FENDER SLINGS

Port Employee Safety and Productivity

The Wharfsafe™ system is substantially lighter and easier to handle than traditional fender chains. This lightweight engineered solution can significantly reduce rigging time and manpower, improving operational efficiency while supporting the safety, health, and well-being of port personnel.

Long-Wearing Performance

Engineered from high-strength synthetic fiber, Wharfsafe™ slings are highly durable and will not rust, corrode, or permanently stretch like chain. They are resistant to both saltwater and freshwater environments, and critical wear points are protected through a four-part jacket system for enhanced durability.

No Moving Parts = Longer Service Life

Slack or poorly maintained chain systems often fail to achieve their intended design life due to excessive wear from chain link movement and the need for frequent maintenance. Some ports have experienced fender chain service lives of only 3–5 years, far below original design expectations.

Wharfsafe™ eliminates this problem with a no-moving-parts design, removing the wear mechanisms associated with chain links and helping preserve long-term system performance.

Virtually Maintenance Free

Wharfsafe™ is a true set-and-forget solution. Sling segments are manufactured to a defined length and engineered to resist creep over time, so they do not require the ongoing adjustment and annual maintenance typically associated with chain systems.

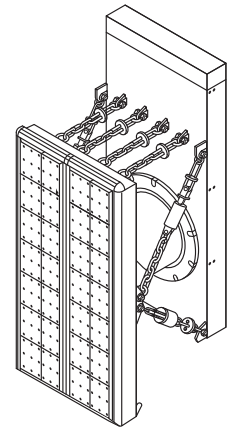
Engineered Fiber Performance for Marine Infrastructure

The advantages of synthetic fiber over steel chain and wire have been well documented for more than 25 years. Lower weight, corrosion resistance, and greater flexibility have driven the widespread adoption of engineered fiber systems across demanding marine and industrial applications.

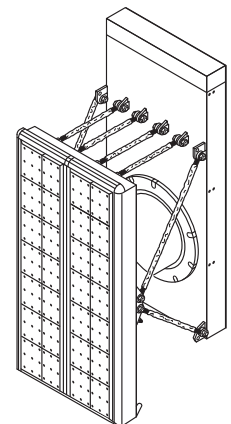
Wharfsafe™ brings those same advantages to fixed wharf fender systems—delivering a safer, longer-lasting, and more efficient alternative to chain.

For More Information

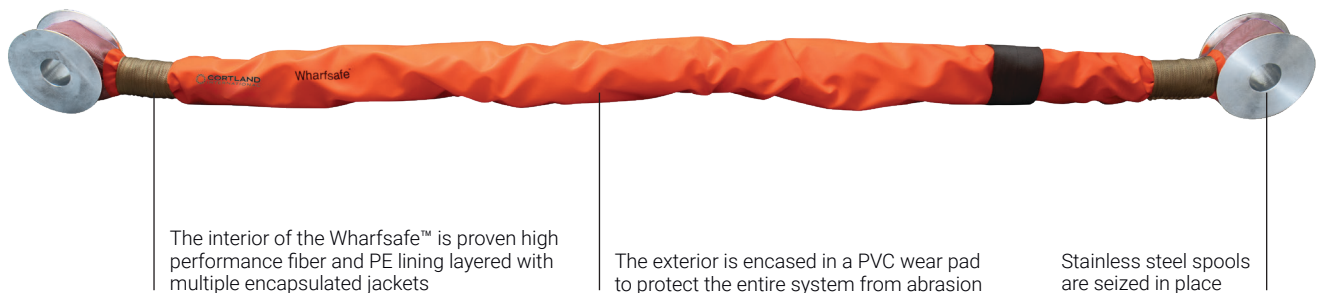
For more information about this innovative, high-performance engineered fiber solution, email contact@cortlandinternational.com.



Fender chains



Wharfsafe™ solution



The interior of the Wharfsafe™ is proven high performance fiber and PE lining layered with multiple encapsulated jackets

The exterior is encased in a PVC wear pad to protect the entire system from abrasion

Stainless steel spools are seized in place